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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HETEROGENEOUS DISK STORAGE MANAGEMENT TECHNIQUE

HETROGENIOUS LOW-LEVEL DISK STORAGE MANAGEMENT TOOL SYSTEM STACK GRAPHICAL USER INTERFACE (GUI) / APPLICATION MANAGES INPUT AND PRESENTS A UNIFORM INTERFACE TO THE USER, ABSTRACTS THE UNDERLYING COMPLEXIT OF EACH DEVICE, MENU OPTIONS ARE TAILORED TO EACH UNIQUE STORAGE DEVICE COM / DCOM LAYER STORAGE DEVICE SPECIFIC CONFIGURATION RULES ARE DETERMINED AND ENFORCED. ONLY THE OPERATIONS THAT ADHERE TO THE DATA, COMMISSION FERD RESIDENCE ARE ALLOWED TO PROCEED. IT AM ILLEGAL COMMAND IS ATTEMPTED, AN ERROR MESSAGE IS RETURNED TO THE GUI AND THE USER IS NOTIFIED VIA A POPUP WINDOW AND THE OPERATION IS CANCELED, DUE TO THE NATURE OF COM, IT IS POSSIBLE TO RUN REMOTELY (IE: YOU DO NOT NEED TO BE SITTING IN FRONT OF YOUR SYSTEM) 10 DBS NecDULLIBLE EMICROULLE CONCODULIBLE STEEL THIS LAYER TAKES ADVANTAGE OF EACH STORAGE SPECI CONFORMS TO EACH ACCORDINGLY, ALL COMMANDS ARE ISSUED VIA STANDARD SCSI PASS-THROUGH COMMANDS HOST BUS ADAPTER (HBA) HOST COMMANDS ARE CAPTURED AND FANNELED BY THE HOST FOR OPENTING SYSTEM THROUGH ITS OUN SCSI INTERFACE AND EVENTUALLY TO ANY STANDARD FOSCSI HOST BUS ADAPTER. FC/SCSI FIBRE CHANNEL FABRIC FABRIC THIS LAYER IS PURELY OPTIONAL THE ALTERNATIVE IS TO HAVE DIRECT ATTACHED STORAGE DEVICES 14-FIBRE STORAGE VENDORA (VENDOR B VENDOR C DEVICES 121

(57) Abstract: Management of one or more storage devices (121-12) is achieved by first identifying each device by its make and model, and then establishing a database (18) containing information about that device, such as (a) operational rules, (b) commands and (c) processing routines. From the information obtained from the database (18), a Graphical User Interface is created for display to afford a user at least one menu option for selection. Upon selecting the one menu option, the user obtains at least one of (a) a display of information associated with the identified storage device, and (b) execution of at least one process to control, at least in part, the operation of the identified storage device. The user's selection is processed and the Graphical User Interface is automatically updated in response to the processing of the user's selected menu option.

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : G06F 17/00; G09G 5/00			
US CL : 707/1, 102; 345/810, 835, 848-855 According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
U.S.: 707/1, 102; 345/810, 835, 848-855			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST			
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C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Y	US 6,346,954 B1 (CHU et al.) 12 February 2002 (12.02.2002), column 6, column 7.		1-11
v	US 6,519,678 B1 (BASHAM et al.) 11 February 2003 (11.02.2003), column 7, column 8.		
Y, P	US 0,317,076 B1 (BASITAIVI et al.) 11 February 2003 (11.02.2003), Column 7, Column 6.		
Y	Y US 6,266,740 B1 (DON et al.) 24 July 2001 (24.07.2001), column 5, lines 11-64, column		1-11
_	6, lines 28-49, column 8, line 51 to column 9, line 3.		· ·
Y	US 6,101,559 A (SCHULTZ et al.) 08 August 2000 (08.08.2000), column 5, line 37 to		1-11
	column 6, line 27.		
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Further	r documents are listed in the continuation of Box C.	See patent family annex.	
		"T" later document published after the international filing date or priority	
		date and not in conflict with the application but cited to understand the	
"A" document defining the general state of the art which is not considered to be principle or theory underlying the invention of particular relevance			
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		combined with one or more other such documents, such combination being obvious to a person skilled in the art	
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